

arranged in a random sequence. Applicant directs the Examiner to page 5, line 15 of the specification, as originally filed, for the disclosure of a lumpy edge comprising a plurality of convex and concave surfaces. Applicant submits that FIG. 5, as originally filed, discloses a random sequence, but no agreement was reached with the Examiner during the telephone interview of January 14, 2003 regarding this disclosure. In order to advance the examination of the subject application, and without acquiescing to this rejection, Applicant has amended claims 9 and 11 to recite an irregular lumpy edge. FIG. 5 clearly discloses a lumpy edge, which is not regular in the ordinary meaning of this term. According to the unabridged.merriam-webster.com dictionary, irregular is defined as "lacking perfect symmetry of form: not straight, smooth, even, regular".

Reconsideration and withdrawal of the §112 rejections of claims 1, 5, 9 and 11 is respectfully requested.

**Rejections under 35 U.S.C. §103(a)**

Claims 1, 4, 5 and 8 were rejected under 35 U.S.C. §103(a) over Ichihara (US 4,496,887) in view of APA.

Applicant disagrees that Ichihara discloses a "plurality of continuous and intersecting curved surfaces having different arc centers", for the reasons provided in the Applicant's Amendment filed on 11/18/2002. Nevertheless, to advance the examination of the subject application, Applicant amended claims 1 and 5 as suggested by the Primary Examiner. Ichihara fails to disclose a continuous curve surface comprising a plurality of continuous curve surfaces, each curve surface having convex and concave curve portions, as amended claims 1 and 5 recite. Accordingly, it is submitted that claims 1 and 5, and therefore claims 4 and 8 that depend from them, are patentable over these references.

Claims 9 and 11 were rejected under 35 U.S.C. §103(a) over Ichihara in view of APA and in further view of Pletscher (1,566,693) and Tetsuo (JP 02119544). Neither Ichihara, nor APA, nor Pletscher disclose a rotor with an irregular lumpy edge as amended claims 9 and 11 recite. Tetsuo discloses an edge with a periodic or symmetric number of segments, as can be seen from FIGS. 1-3 of Tetsuo. FIG. 5 of the subject application, as originally filed, discloses an irregular lumpy edge, i.e., an edge that is neither periodic nor symmetric, according to the

ordinary meaning of the term "irregular". See dictionary definition cited above. Accordingly, it is submitted that claims 9 and 11 are patentable over the cited references.

Reconsideration and withdrawal of the rejections of claims 1, 4, 5, 8, 9 and 11 is respectfully requested.

**Conclusion**

Applicant submits that all of the pending claims are in condition for allowance. Accordingly, reconsideration and passage to allowance of the subject application at an early date are earnestly solicited. If the undersigned can be of assistance in advancing the subject application to allowance, the Examiner may contact the undersigned at the telephone number set forth below.

Respectfully submitted,



---

Maria Comninou  
Registration No. 44,626  
Attorney for Applicant

Kirkpatrick & Lockhart LLP  
Henry W. Oliver Building  
535 Smithfield Street  
Pittsburgh, PA 15222  
Telephone: (412) 355-6583  
Fax: (412) 355-6501

**VERSION WITH CHANGES TO SHOW AMENDMENTS**

**In the Drawings**

Original FIG. 5 was replaced with substitute FIG. 5.

**In the Claims**

Claims 1, 5, 9 and 11 were amended as follows:

1. (Four Times Amended) A structure for magnetizing a rotor magnet of a motor, comprising:

a rotor, the rotor being a unitary magnet cylinder bounded by an inner surface and outer surface, wherein at least one of said surfaces is a unitary and continuous [wavy] curve surface comprising a plurality of continuous [and intersecting] curve surfaces, each curve surface having convex and concave curve portions [having different arc centers]; and

a stator having a plurality of silicon steel sheets wound by a plurality of winding coils.

5. (Four Times Amended) A structure for magnetizing a stator magnet of a motor, comprising:

a stator, the stator being a unitary magnet cylinder bounded by an inner surface and outer surface, wherein at least one of said surfaces is a unitary and continuous [wavy] curve surface comprising a plurality of continuous, each curve surface having convex and concave curve portions [and intersecting] curve surfaces [having different arc centers]; and

a rotor having a plurality of silicon steel sheets wound by a plurality of winding coils.

9. (Four Times Amended) A structure for magnetizing a rotor magnet, comprising:

a rotor, the rotor being a unitary magnet cylinder with an irregular lumpy edge comprising a plurality of concave surfaces and a plurality of convex surfaces [arranged in a random sequence]; and

a stator having a plurality of silicon steel sheets wound by a plurality of winding coils and mounted inside said magnet cylinder.

11. (Four Times Amended) A structure for magnetizing a stator magnet, comprising:

a stator, the stator being a unitary magnet cylinder with an irregular lumpy edge comprising a plurality of concave surfaces and plurality of convex surfaces [arranged in a random sequence]; and

a rotor having a plurality of silicon steel sheets wound by a plurality of winding coils and mounted inside said magnet cylinder.